



next generation led

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LED canopy light



Properties

- Lifespan L70 %: > 50.000hr
- Minimal energy saving = 65%
- Immediate start regardless of temperature or humidity
- No maintenance costs
- Efficacy: 120 lumen per watt
- Direct replacement for metal halide/ SON garage forecourt fittings
- Can be combined with numerous different sensor options to provide high energy savings and low payback time
- Frame size built to order to fit any cutout size
- Dimmable to 20% with DALI or 0-10v
- 312 x Osram 5630 Duris E5 LED
- Powder coating and hard anodising finish
- Easy installation
- Full BS EN European safety approval
- Warranty: 5 jaar

IP 65 - IP44
with sensor

No mercury
or toxic
gasses

Quality
driver

Meanwell
ELG-100
driver

Plug en play
system

Recessed
or surface -
mounted

Specifications

LED Canopy light	
Input voltage	AC200 - 277V/ 50-60Hz
Power	up to 100W
Color rendering index	RA > 85
Luminous intensity	12.000 lm @ 5000K
Color temperature	5000K (3000K, 4000K, 5700K available)
Temperature in use	- 20°C ~ 50°C
Beam angle	120°
Dimension	To order (minimum 150mm clearance)
Weight	8kg
Sensor	PIR or daylight sensor (multi programmable)

Application

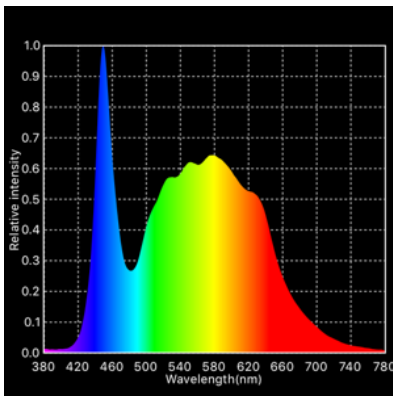
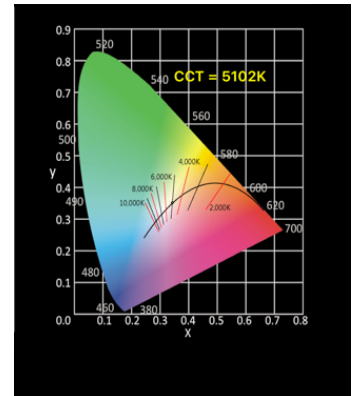
Garage forecourt, gas stations, everywhere metal halide or natrium lamps have to be replaced.

Updated: March 2017



CIE 1931

The CIE color space, developed in 1931, is still used to define colors, and as a reference for other color spaces. The figure is a two-dimensional display of colors of the same intensity (brightness), which is based on observations of color measurements by people.

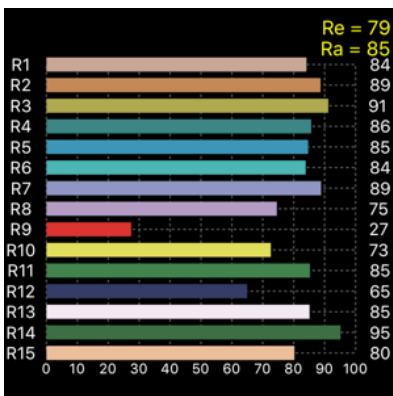
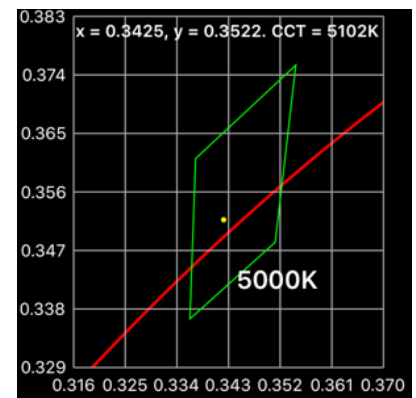


SPECTRUM

Isaac Newton used the Latin word spectrum to define the color series which arose when he dropped a bundle of sunlight through a glass prism. The color spectrum consists of the colors of the rainbow with the color sequence red-orange-yellow-green-blue-indigo-violet, which corresponds to bearish wave length (increasing frequency) of the light waves.

C78 377

ANSI C 78.377 is now the standard for color quality, as determined by the American National Standards Institute. ANSI recommends lamp manufacturers to stay within a 4-step ellipse. This means that manufacturers with a particular focus on the CIE diagram have a broad range of observable differences.



CRI HISTOGRAM

The color reproduction of a light source indicates whether the color of an object can be displayed true to nature. The graph shows whether we can accurately determine color, depending on the color rendering properties of the light source.

Ra = average of R1 to R8

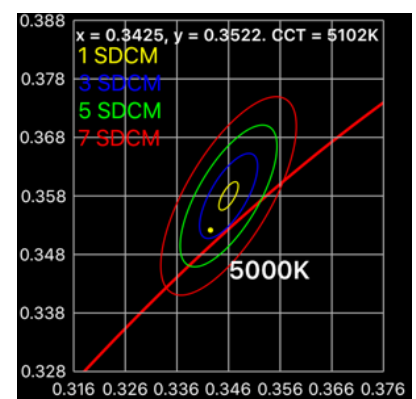
Re = average of R1 to R15

R9 = saturated red. Should be as high as possible.

SDCM

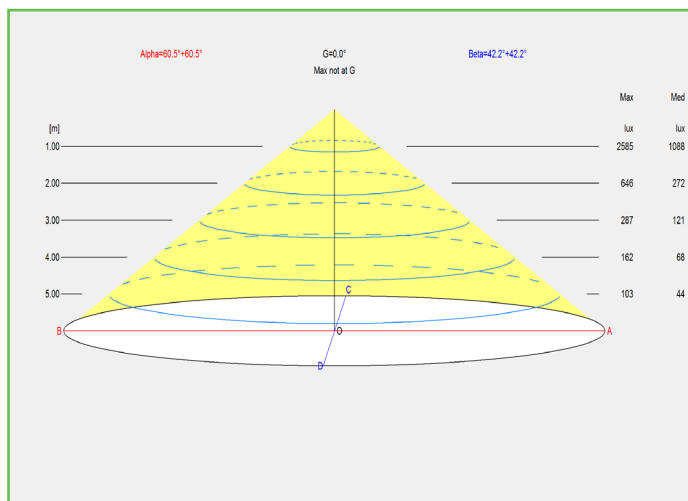
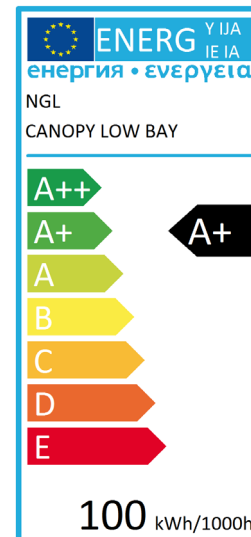
SDCM is an acronym which stands for Standard Deviation Colour Matching. SDCM has the same meaning as a "MacAdam ellipse". A 1-step MacAdam ellipse defines a zone in the CIE 1931 2 deg (xy) colour space within which the human eye cannot discern colour difference. Most LEDs are binned at the 4-7 step level, in other words you certainly can see colour differences in LEDs that are ostensibly the same colour.

SDCM	CCT @ 3000K	ΔU_V
1x	±30K	±0.0007
2x	±60K	±0.0010
4x	±100K	±0.0020
7-8x	±175K	±0.0060



ENERGY LABEL

Electrical appliances carry an energy label. This label prints the so-called energy efficiency score in classes. These classes range from 'very energy efficient' (A++) to 'very waste of energy' (E). A more expensive new device may eventually turn out to be cheaper if the energy score is good. IPEA is the new system for luminaire energy efficiency assessment.

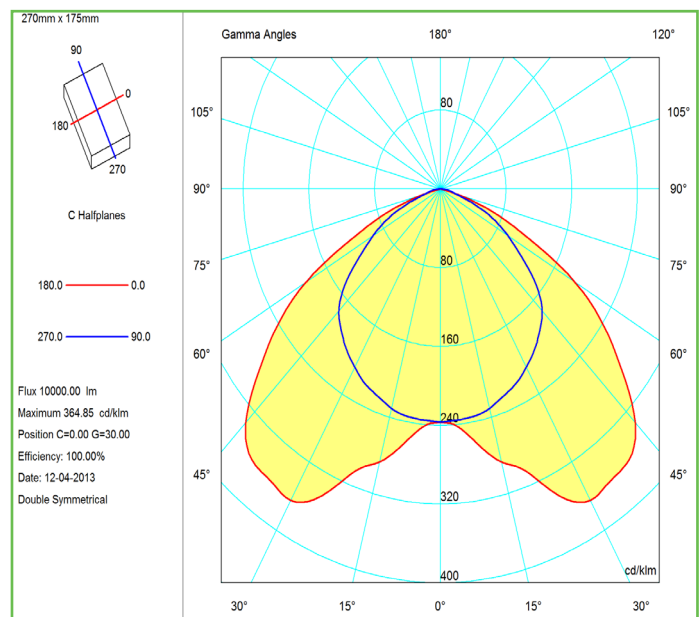


BEAM

The Illuminance Cone Diagram indicates the maximum illuminance at different distances from the fixture.

POLAR DIAGRAM

The polar luminous intensity graph illustrates the distribution of luminous intensity, in candelas, for the transverse (solid line) and axial (dashed line) planes of the luminaire. The shown curve provides a visual guide to the type of distribution expected from the luminaire e.g. wide, narrow, direct, indirect... in addition to intensity.



LED CANOPY LIGHT

REFERENCE	WATT	LUMEN	COLOR	BEAM ANGLE	DIMMABLE
181-0001	100W	12000 Lm	5000 K	120°	Yes
181-0002	100W	12000 Lm	5000 K	120°	Yes

